


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>3094US0P</b>
		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/527426</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP2003/011511</b>	INTERNATIONAL FILING DATE <b>September 9, 2003</b>	PRIORITY DATE CLAIMED <b>September 10, 2002</b>
TITLE OF INVENTION <b>FIVE-MEMBERED HETEROCYCLIC COMPOUNDS</b>		
APPLICANT(S) FOR DO/EO/US <b>Yu MOMOSE; Nobuyuki TAKAKURA; Tsuyoshi MAEKAWA; Hiroyuki ODAKA; Hiroyuki KIMURA;</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <b>Cited References</b></li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: and 332; ISR</li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/527426</b>		INTERNATIONAL APPLICATION NO. PCT/JP2003/011511		ATTORNEY'S DOCKET NUMBER 3094US0P	
21. The following fees are submitted:					
<input type="checkbox"/> a) Basic national fee..... \$300.00				\$	
<input type="checkbox"/> b) Examination fee..... \$200.00				\$	
<input type="checkbox"/> c) Search fee..... \$500.00				\$	
TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
499 - 100 =	399 /50 =	8	x \$250.00	\$ 2,000.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	27 - 20 =	7	x \$50.00	\$ 350.00	
Independent claims	6 - 3 =	3	x \$200.00	\$ 600.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
SUBTOTAL =				\$ 3,950.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$ 3,950.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00	
TOTAL FEES ENCLOSED =				\$ 3,990.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$ 3,990.00
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>500799</u> in the amount of \$ <u>3,990.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>500799</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Mark Chao, Ph.D., JD					
Takeda Pharmaceuticals North America, Inc					
475 Half Day Road					
Lincolnshire, IL 60069 USA					
(847)383-3372 fax (847)383-3409					
				 SIGNATURE Mark Chao, Ph.D., JD NAME 37,293 REGISTRATION NUMBER For Customer No. 23.115	

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:	Based on PCT/JP2003/011511	Art Unit:	tba
Filed:	Intl. Filing 09 SEPTEMBER 2003	Examiner:	tba
1 <sup>st</sup> Inventor:	Yu MOMOSE	Allowed:	
For:	Five-Membered Heterocyclic Compounds	Batch:	
Atty. Dkt. No.	3094 USOP	Paper No.:	

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

USPS EXPRESS MAIL LABEL. No. EV 524907751 US

DATE IN: March 10, 2005

## Itemized Papers/Items:

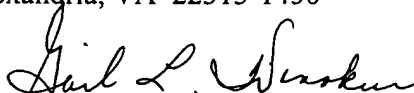
1. This Certificate of Express Mailing and Return Postcard (2 pages)
2. Transmittal Letter for Filing under 35 USC 371 (2 pages X 2)
3. Specification - total pages (499) including Claims 1-29 (pages 470-490, Abstract (1 page), and Sequence Listing (1 page)
4. PCT Request (6 pages)
5. Declaration and Power of Attorney (4 pages)
6. Copies of Forms PCT/IB/301, 304, 306, 308, 332 (6 pages)
7. Copy of Cover Page International Application (WO 2004/024705) (1 page)
8. Copy of International Search Report (5 pages)
9. Preliminary Amendment (2 pages)
10. Information Disclosure Statement (1 page), Form PTO/SB/08A and PTO/SB/08B (pages), cited references (20)
11. Submission of Sequence Listing Requirements (1 page), CRF of Sequence Listing (2 pages), and IBM PC/AT format disk containing the CRF of the Sequence Listing.
12. Executed Assignment (2 pages) and Recordation Cover Sheet (1 page X 2)

The undersigned hereby certifies that the above itemized papers are together being deposited with the Express Mail Post Office to Addressee service of the United States Postal Service (USPS) in an envelope with sufficient postage, having the USPS Express Mail Label No. shown above, and addressed to:

MAIL STOP PCT  
P.O. BOX 1450  
Commissioner for Patents  
Alexandria, VA 22313-1450

on this date, 3/10/05

Dated: 3/10/05

  
Gail L. Winokur

DT15 Rec'd PCT/PTO 10 MAR 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:	Based on PCT/JP2003/011511	Art Unit:	tba
Filed:	Intl. Filing 09 SEPTEMBER 2003	Examiner:	tba
1 <sup>st</sup> Inventor:	Yu MOMOSE	Allowed:	
For:	Five-Membered Heterocyclic Compounds	Batch:	
Atty. Dkt. No.	3094 US0P	Paper No.:	

Sequence Listing Requirements STATEMENT**MAIL STOP PCT**

Commissioner for Patents  
P.O. Box 1450  
Arlington, VA 22313-1450

Sir:

Applicants respectfully submit a written Sequence Listing for the Specification and a DOS Text CRF Sequence Listing file "3094us0pSEQ.txt" on the enclosed 3.5" IBM PC/AT computer disk.

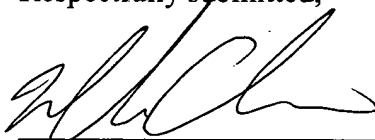
The undersigned hereby certifies that the CRF and the written Sequence Listing are the same in content. The Sequence Listing contains no new matter.

Respectfully submitted,

Dated: March 10, 2005

(847)383-3372

(847)383-3391



Mark Chao, Ph.D., Reg. No. 37,293

Elaine M. Ramesh, Ph.D., Reg. No. 43032

Attorney for Applicants

Customer No. 23115

Takeda Pharmaceuticals North America, Inc.  
Intellectual Property Department  
Suite 500, 475 Half Day Road  
Lincolnshire, IL 60069 USA